Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"5903749".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/20 13:30
L2	162	((resource memor$3 disk) near4 allocat$3) same ((plurality multiple multi) near4 (watermark (water adj mark) quota threshold limit$3))	USPAT	OR	ON	2005/11/20 14:03
L3	2	l2 same ((denying denial refus$3 allow$3 grant$3 authoriz$7 permi$5) with (exceed$3 above beyond) with (watermark (water adj mark) quota threshold limit$3))	USPAT	OR	ON	2005/11/20 14:05
L4	140	((soft-limit$5 softlimit$5 (soft adj2 limit$5)) same (hard-limit$5 hardlimit$5 (hard adj2 limit$5))) same (exceed$3 over above beyond high$3 low$3 below under)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/20 14:05
L5	61	(((hardlimit$3 hard-limit$3 (hard near3 limit$3)) and (softlimit$3 soft-limit$3 (soft near3 limit$3))) and ((potential associat$3) with (task$3 process$3 program client user))) and ((authoriz$7 den$4 allow$4 permi$6 grant$3 allocat$3) with (resource access$7))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/20 14:06
L6	0	l2 and 718/100.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/20 14:09
L7	0	l2 and 718/102.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/20 14:08
L8	4	l2 and 718/104.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/20 14:10
L9	8	l2 and 709/226.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/20 14:09

L10	1	14 and 718/102.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/11/20 14:09
L11	1	14 and 718/104.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/11/20 14:08
L12	0	14 and 718/100.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/11/20 14:09
L13	1	14 and 709/226.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/11/20 14:09
L14	1	15 and 709/226.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/11/20 14:09
L15	1	15 and 718/100.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/11/20 14:09
L16	1	15 and 718/102.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/11/20 14:09
L17	1	15 and 718/104.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/11/20 14:10

PALM INTRANET

Inventor Information for 09/687436

Inventor Name	City	State/Country
KARP, ALAN H.	PALO ALTO	CALIFORNIA
ROKICKI, THOMAS	PALO ALTO	CALIFORNIA

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Inventor Name Search Result

Your Search was:

Last Name = KARP
First Name = ALAN

Application#	Patent#	Status	Date Filed	Title	Inventor Name
08675170	5903749	150	07/02/1996	METHOD AND APPARATUS FOR IMPLEMENTING CHECK INSTRUCTIONS THAT ALLOW FOR THE REUSE OF MEMORY CONFLICT INFORMATION IF NO MEMORY CONFLICT OCCURS	KARP, ALAN
08953836	Not Issued	161	10/13/1997	RECOVERY FROM EXCEPTION DEFERED BY SPECULATIVE INSTRUCTIONS	KARP, ALAN
10146974	Not Issued	41	05/15/2002	Method for visualizing graphical data sets having a non-uniform graphical density for display	KARP, ALAN
10796690	Not Issued	30	03/08/2004	System and method for safely executing downloaded code on a computer system	KARP, ALAN
10903002	Not Issued	30	07/30/2004	System and method for using message acknowledgements to optimize network performance	KARP, ALAN
11117213	Not Issued	30	04/28/2005	Executing an alternate instruction stream	KARP, ALAN
11117216	Not Issued	30	04/28/2005	Caching data in a multi-processor system	KARP, ALAN
11117217	Not Issued	30	04/28/2005	Executing an instruction stream	KARP, ALAN
09376149	6493712	150	08/17/1999	SELF-DESCRIBING ATTRIBUTE VOCABULARIES IN A SOFTWARE SYSTEM	KARP, ALAN H
09525515	Not Issued	61	03/15/2000	Negotiation protocol with compromise that is guaranteed to terminate	KARP, ALAN H.
09539558	Not Issued	61	03/31/2000	Apparatus and method for selling personal information	KARP, ALAN H.
09559508	6631460	150	04/27/2000	ADVANCED LOAD ADDRESS TABLE ENTRY INVALIDATION BASED ON REGISTER ADDRESS WRAPAROUND	KARP, ALAN H.
09575748	Not	61	05/22/2000	Event handling using publish and	KARP, ALAN H.

	Issued			subscribe permissions	
09687436	Not Issued	121	10/13/2000	Flexible allocation of a resource	KARP, ALAN H.
09733012	Not Issued	94	12/08/2000	METHOD AND SYSTEM OF TYPING RESOURCES IN A DISTRIBUTED SYSTEM	KARP, ALAN H.
09758087	6732127	150	01/10/2001	VERIFIABLE RANDOM NUMBER GENERATOR USING CHAOS	KARP, ALAN H.
09858251	Not Issued	30	05/15/2001	Automated decision support system for designing auctions	KARP, ALAN H.
09862612	Not Issued	121	05/23/2001	Lightweight dynamic service conversation controller	KARP, ALAN H.
09882581	Not Issued	30	06/14/2001	Assessing health of a subsystem or service within a networked system	KARP, ALAN H.
09922551	Not Issued	167	08/02/2001	Look-ahead load pre-fetch in a processor	KARP, ALAN H.
09963270	Not Issued	41	09/24/2001	Providing instruction execution hints to a processor using break instructions	KARP, ALAN H.
09994635	Not Issued	61	11/28/2001	Computer language for defining business conversations	KARP, ALAN H.
10003349	Not Issued	61	12/06/2001	Transformational conversation definition language	KARP, ALAN H.
10122511	Not Issued	71	04/15/2002	Wireless network system	KARP, ALAN H.
10184970	6752837	150	06/28/2002	SECURITY TAGS WITH A REVERSIBLE VISIBLE INDICATOR	KARP, ALAN H.
10211721	Not Issued	30	08/02/2002	System-specific passwords	KARP, ALAN H.
10229246	6765565	150	08/26/2002	METHOD FOR ENHANCING A SPORTING EVENT BY LOCALIZED INFORMATION DISPLAY	KARP, ALAN H.
10255818	Not Issued	30	09/26/2002	Network service system and mechanism for searching service registries	KARP, ALAN H.
10452527	Not Issued	30	06/02/2003	Automated negotiation	KARP, ALAN H.
10632402	Not Issued	30	07/31/2003	System and method for selectively increasing message transaction costs	KARP, ALAN H.
10637308	Not Issued	30	08/08/2003	Method and apparatus for identifying an object using an object description language	KARP, ALAN H.
10733502	Not Issued	30	12/11/2003	Method for exchanging information	KARP, ALAN H.

10798187	Not Issued	20	03/10/2004	Method and apparatus for processing descriptive statements	KARP, ALAN H.
10823837	Not Issued	30	04/12/2004	Method and system for cryptographically secure hashed end marker of streaming data	KARP, ALAN H.
10835178	Not Issued	30	04/30/2004	Computer architechture including implemented and unimplemented registers	KARP, ALAN H.
10870721	Not Issued	20	06/16/2004	Synchronization of threads in a multithreaded computer program	KARP, ALAN H.
10870722	Not Issued	20	06/16/2004	Detecting data races in multithreaded computer programs	KARP, ALAN H.
10871971	Not Issued	30	06/18/2004	Detecting memory address bounds violations	KARP, ALAN H.
10902156	Not Issued	20	07/30/2004	Computer executing instructions having embedded synchronization points	KARP, ALAN H.
10902199	Not Issued	20	07/28/2004	Method and system for optional code scheduling	KARP, ALAN H.
10924295	Not Issued	20	08/23/2004	Authentication	KARP, ALAN H.
10928188	Not Issued	20	08/30/2004	Method of accessing a file for editing with an application having limited access permissions	KARP, ALAN H.
10958276	Not Issued	30	10/06/2004	Sending a message to an alert computer	KARP, ALAN H.
10977271	Not Issued	20	10/29/2004	Providing a user a non-degraded presentation experience while limiting access to the non-degraded presentation experience	KARP, ALAN H.
11038717	Not Issued	20	01/20/2005	Negotiation system and processor-based method	KARP, ALAN H.
11141839	Not Issued	20	06/01/2005	Method and system of typing resources in a distributed system	KARP, ALAN H.
60253953	Not Issued	159	11/28/2000	Language for defining business conversations	KARP, ALAN H.
06614410	4603323	150	05/25/1984	METHOD FOR EXTENDING THE EXPONENT RANGE OF AN IBM 370-TYPE FLOATING POINT PROCESSOR	KARP, ALAN H.
07082015	4866769	150	08/05/1987	HARDWARE ASSIST FOR PROTECTING PC SOFTWARE	KARP, ALAN H.
07197060	5093916	150	05/20/1988	SYSTEM FOR INTERTING CONSTRUCTS INTO COMPILED CODE, DEFINING SCOPING OF COMMON BLOCKS AND DYNAMICALLY BINDING	KARP, ALAN H.

				COMMON BLOCKS TO TASKS		

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Inventor Name Search Result

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Last Name = ROKICKI
First Name = THOMAS

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09687436	Not Issued	121	10/13/2000	Flexible allocation of a resource	ROKICKI, THOMAS

Inventor Search Completed: No Records to Display.

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81   Multicast Video-on-Demand services
Huadong Ma, Kang G. Shin
January 2002   **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(1.28 MB)   Additional Information: full citation, ab

> The server's storage I/O and network I/O bandwidths are the main bottleneck of VoD service. Multicas
> VoD performance. However, there are many problems to overcome before development of multicast V(
> systems. We first present the concept and architecture of multicast VoD, and then introduce ...
>
> **Keywords:** Quality-of-Service (QoS), VCR-like interactivity, Video-on-Demand (VoD), multicast, schec

82   Efficient network and I/O throttling for fine-grain cycle stealing
Kyung D. Ryu, Jeffrey K. Hollingsworth, Peter J. Keleher
November 2001   **Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDR(**
Publisher: ACM Press
Full text available: 📄 pdf(127.89 KB)   Additional Information: full citation, ab

> This paper proposes and evaluates a new mechanism, rate windows, for I/O and network rate policing.
> target classes of jobs in a system. This work was motivated by our Linger Longer infrastructure, which
> Longer can leave guest jobs on non-idle nodes and machine owners should not be adversely a ...

83   Storage management and caching in PAST, a large-scale, persistent peer-to-peer storage utility
Antony Rowstron, Peter Druschel
October 2001   **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ⱥ**
Publisher: ACM Press
Full text available: 📄 pdf(1.48 MB)   Additional Information: full citation, ab

> This paper presents and evaluates the storage management and caching in PAST, a large-scale peer-t(
> storage nodes that cooperatively route file queries, store multiple replicas of files, and cache additional
> distributed identifiers, and replicas of a file are stored at nodes whose identifier matches ...

84   SEDA: an architecture for well-conditioned, scalable internet services
Matt Welsh, David Culler, Eric Brewer
October 2001   **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ⱥ**
Publisher: ACM Press
Full text available: 📄 pdf(1.51 MB)   Additional Information: full citation, ab

We propose a new design for highly concurrent Internet services, which we call the *staged event-drive* construction of well-conditioned services. In SEDA, applications consist of a network of event-driven *st* preventing resources from being overcommitted when demand exceeds service cap ...

85 Anticipatory scheduling: a disk scheduling framework to overcome deceptive idleness in synchro

Sitaram Iyer, Peter Druschel
October 2001   **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth** *A*

Publisher: ACM Press

Full text available: pdf(1.61 MB)   Additional Information: full citation, ab

Disk schedulers in current operating systems are generally work-conserving, i.e., they schedule a requ requests from each process to meet system-level goals of performance and quality of service. Unfortur successive requests with short periods of computation. The scheduler chooses the next request too ea

86 Information and control in gray-box systems

Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau
October 2001   **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth** *A*

Publisher: ACM Press

Full text available: pdf(1.59 MB)   Additional Information: full citation, ab

In modern systems, developers are often unable to modify the underlying operating system. To build s operating system as a gray-box, one recognizes that not changing the OS restricts, but does not comp one can impose on the OS. In this paper, we develop and investigate three gray-bo ...

87 Managing energy and server resources in hosting centers

Jeffrey S. Chase, Darrell C. Anderson, Prachi N. Thakar, Amin M. Vahdat, Ronald P. Doyle
October 2001   **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth** *A*

Publisher: ACM Press

Full text available: pdf(1.61 MB)   Additional Information: full citation, ab

Internet hosting centers serve multiple service sites from a common hardware base. This paper preser operating system, with an emphasis on *energy* as a driving resource management issue for large serve adapts to offered load, improve the energy efficiency of server clusters by dynamically res ...

88 On the quantification of e-business capacity

Moises Goldszmidt, Derek Palma, Bikash Sabata
October 2001   **Proceedings of the 3rd ACM conference on Electronic Commerce**

Publisher: ACM Press

Full text available: pdf(1.13 MB)   Additional Information: full citation, ab

In order for current e-Businesses to mature from hastily assembled systems and applications, formal p quality of service and service--level assurances. There are many challenges that e-Businesses face in f business objectives and the information system performance objectives. Next, the characterizatio ...

89 Prioritized resource allocation for stressed networks

Cory C. Beard, Victor S. Frost
October 2001   **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 5

Publisher: IEEE Press

Full text available: pdf(253.05 KB)   Additional Information: full citation, ab

Overloads that occur during times of network stress result in blocked access to all users, independent (demand. Public broadband networks must dynamically recognize some multimedia connections as havi admission control is proposed that uses an upper limit policy to optimize the admission of connectio ...

Keywords: Computer network performance, resource management

90
   Multitasking without comprimise: a virtual machine evolution

Grzegorz Czajkowski, Laurent Daynés
October 2001   **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference**
                      Issue 11
Publisher: ACM Press
Full text available: pdf(220.97 KB)   Additional Information: full citation, ab

The multitasking virtual machine (called from now on simply MVM) is a modification of the Java virtual application from one another. Resource control augment security by preventing some denial-of-service share as much of the runtime as possible among applications and replicate everything el ...

Keywords: Java virtual machine, application isolation, native code execution, resource control

91 Video Storage: Periodic broadcast and patching services: implementation, measurement, and ar
Michael K. Bradshaw, Bing Wang, Lixin Gao, Jim Kurose, Prashant Shenoy, Don Towsley, Subhabrata Ser
October 2001   **Proceedings of the ninth ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(797.96 KB)   Additional Information: full citation, ab

Multimedia streaming applications can consume a significant amount of server and network resources. in innovative ways to reduce server and network load, while at the same time allowing asynchronous a primarily on the algorithmic aspects of these approaches, with evaluation performed via analysis ...

Keywords: patching, periodic broadcast, server

92 Streaming 2: Server-based smoothing of variable bit-rate streams
Stergios V. Anastasiadis, Kenneth C. Sevcik, Michael Stumm
October 2001   **Proceedings of the ninth ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(851.29 KB)   Additional Information: full citation, ab

We introduce an algorithm that uses buffer space available at the server for smoothing disk transfers c space, instead. However, emergence of personal computing devices with widely different hardware cor algorithm is shown to have optimal smoothing effect under the specified constraints. We inc ...

93 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available: pdf(613.63 KB) html(2.78 KB)   Additional Information: full citation, references, citings, index ter

94 Approximate query processing using wavelets
Kaushik Chakrabarti, Minos Garofalakis, Rajeev Rastogi, Kyuseok Shim
September 2001   **The VLDB Journal — The International Journal on Very Large Data Bases,**
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(390.24 KB)   Additional Information: full citation, ab

Approximate query processing has emerged as a cost-effective approach for dealing with the huge dat work in this area, however, has so far been limited in its query processing scope, typically focusing on histograms appear to be inherently limited when it comes to approximating the results of complex que

Keywords: Approximate query answers, Data synopses, Query processing, Wavelet decomposition

95 Parallel execution of prolog programs: a survey
Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo
July 2001   **ACM Transactions on Programming Languages and Systems (TOPLAS),** Vo

Publisher: ACM Press
Full text available: pdf(1.95 MB)   Additional Information: <u>full citation,</u> <u>ab</u>

Since the early days of logic programming, researchers in the field realized the potential for exploitatio
nondeterminism, and their referential transparency, among other characteristics, make logic programs
the typical applications of logic programming frequently involve irregular computatio ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

96 <u>Data and memory optimization techniques for embedded systems</u>
P. R. Panda, F. Catthoor, N. D. Dutt, K. Danckaert, E. Brockmeyer, C. Kulkarni, A. Vandercappelle, P. G. I
April 2001   **ACM Transactions on Design Automation of Electronic Systems (TODAES),**
Publisher: ACM Press
Full text available: pdf(339.91 KB)   Additional Information: <u>full citation,</u> <u>ab</u>

We present a survey of the state-of-the-art techniques used in performing data and memory-related o
subsystem, and impact one or more out of three important cost metrics: area, performance, and powe
the form of code transoformations. We next cover a broad spectrum of optimizati ...

Keywords: DRAM, SRAM, address generation, allocation, architecture exploration, code transformatio
power dissipation, register file, size estimation, survey

97 <u>I/O reference behavior of production database workloads and the TPC benchmarks—an analysi</u>
Windsor W. Hsu, Alan Jay Smith, Honesty C. Young
March 2001   **ACM Transactions on Database Systems (TODS),** Volume 26 Issue 1
Publisher: ACM Press
Full text available: pdf(5.42 MB)   Additional Information: <u>full citation,</u> <u>ab</u>

As improvements in processor performance continue to far outpace improvements in storage performa
manage huge amoungs of data. The key to achieving good I/O performance is to thoroughly understar
behavior of the peak productiondatabase workloads from ten of the world's largest corporatio ...

Keywords: I/O, TPC benchmarks, caching, locality, prefetching, production database workloads, refer

98 <u>A static power model for architects</u>
J. Adam Butts, Gurindar S. Sohi
December 2000 **Proceedings of the 33rd annual ACM/IEEE international symposium on Microarc**
Publisher: ACM Press
Full text available: pdf(136.88 KB) ps(431.76 KB)   Additional Information: <u>full citation,</u> <u>references,</u> <u>citings,</u> <u>index term</u>
Publisher Site

99 <u>Calpa: a tool for automating selective dynamic compilation</u>
Markus Mock, Craig Chambers, Susan J. Eggers
December 2000 **Proceedings of the 33rd annual ACM/IEEE international symposium on Microarc**
Publisher: ACM Press
Full text available: pdf(117.36 KB) ps(313.09 KB)   Additional Information: <u>full citation,</u> <u>references,</u> <u>citings,</u> <u>index term</u>
Publisher Site

100 <u>Process migration</u>
September 2000   **ACM Computing Surveys (CSUR),** Volume 32 Issue 3
Publisher: ACM Press

Full text available: pdf(1.24 MB)   Additional Information: full citation, ab:

Process migration is the act of transferring a process between two machines. It enables dynamic load (and ongoing research efforts, migration has not achieved widespread use. With the increasing deploym is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

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101 Cellular disco: resource management using virtual clusters on shared-memory multiprocessors
◆ Kinshuk Govil, Dan Teodosiu, Yongqiang Huang, Mendel Rosenblum
August 2000   **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(287.05 KB)   Additional Information: full citation, ab

Despite the fact that large-scale shared-memory multiprocessors have been commercially available for
complexity and cost of making the required changes to the operating system. A recently proposed app
laverages the existing operating system technology. In this paper we present a ...

Keywords: fault containment, resource managment, scalable multiprocessors, virtual machines

102 Improving interactive performance using TIPME
◆ Yasuhiro Endo, Margo Seltzer
June 2000   **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 20
systems SIGMETRICS '00**, Volume 28 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(1.05 MB)   Additional Information: full citation, ab

On the vast majority of today's computers, the dominant form of computation is GUI-based user intere
research shows that a user's perception of performance is affected by unexpectedly long delays. Howe·
techniques improve the average performance of the system, they do littl ...

Keywords: interactive performance, monitoring

103 NiagaraCQ: a scalable continuous query system for Internet databases
◆ Jianjun Chen, David J. DeWitt, Feng Tian, Yuan Wang
May 2000   **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD internationa**
Publisher: ACM Press
Full text available: 📄 pdf(165.02 KB)   Additional Information: full citation, ab

Continuous queries are persistent queries that allow users to receive new results when they become a\
need to be able to support millions of queries due to the scale of the Internet. No existing systems hav
based on the observation that many web queries share similar structures. Grouped queries ...

104 System-level power optimization: techniques and tools
Luca Benini, Giovanni de Micheli
April 2000   **ACM Transactions on Design Automation of Electronic Systems (TODAES)**,

Publisher: ACM Press

Full text available: pdf(385.22 KB)   Additional Information: full citation, ab:

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic s hardware that consume energy, namely computation, communication, and storage units, and we revie software, and methods for energy-efficient software design and compilation. This survery ...

105 The LHAM log-structured history data access method
Peter Muth, Patrick O'Neil, Achim Pick, Gerhard Weikum
February 2000   **The VLDB Journal — The International Journal on Very Large Data Bases**,

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(494.76 KB)   Additional Information: full citation, ab:

Numerous applications such as stock market or medical information systems require that both historic support different forms of "time-travel" queries, the migration of old record versions onto inexpensive transaction-time temporal data, called the log-structured history data access method (L ...

Keywords: Data warehouses, Index structures, Performance, Storage systems, Temporal databases

106 Secure buffering in firm real-time database systems
Binto George, Jayant R. Haritsa
February 2000   **The VLDB Journal — The International Journal on Very Large Data Bases**,

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(227.42 KB)   Additional Information: full citation, ab:

Many real-time database applications arise in electronic financial services, safety-critical installations a performance implications, in terms of killed transactions, of guaranteeing *multi-level secrecy* in a real-t *management* aspects of this issue.Our main contributions a ...

Keywords: Buffer management, Covert channels, Firm deadlines, Real-time database

107 Cellular Disco: resource management using virtual clusters on shared-memory multiprocessors
Kinshuk Govil, Dan Teodosiu, Yongqiang Huang, Mendel Rosenblum
December 1999   **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth**

Publisher: ACM Press

Full text available: pdf(1.93 MB)   Additional Information: full citation, ab:

Despite the fact that large-scale shared-memory multiprocessors have been commercially available for complexity and cost of making the required changes to the operating system. A recently proposed app leverages the existing operating system technology.In this paper we present a syste ...

108 Progress-based regulation of low-importance processes
John R. Douceur, William J. Bolosky
December 1999   **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth**

Publisher: ACM Press

Full text available: pdf(1.53 MB)   Additional Information: full citation, ab:

MS Manners is a mechanism that employs progress-based regulation to prevent resource contention w mechanism assumes that resource contention that degrades the performance of a high-importance pro monitoring the progress of the low-importance process and inferring resource contention from a drop i

Keywords: process priority, progress-based feedback, symmetric resource contention

109 Borrowed-virtual-time (BVT) scheduling: supporting latency-sensitive threads in a general-purpo:
Kenneth J. Duda, David R. Cheriton

December 1999   **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth**
Publisher: ACM Press
Full text available: pdf(1.81 MB)   Additional Information: <u>full citation</u>, <u>ab</u>

Systems need to run a larger and more diverse set of applications, from real-time to interactive to bat
latency requirements or are specialized to complex real-time paradigms, limiting their applicability to g
it provides low-latency for real-time and interactive applications yet weighted sharin ...

110 <u>The interactive performance of SLIM: a stateless, thin-client architecture</u>
Brian K. Schmidt, Monica S. Lam, J. Duane Northcutt
December 1999   **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth**
Publisher: ACM Press
Full text available: pdf(1.79 MB)   Additional Information: <u>full citation</u>, <u>ab</u>

Taking the concept of thin clients to the limit, this paper proposes that desktop machines should just b
computational resources over a dedicated interconnection fabric --- much in the same way as a buildin
provides a useful mobility model in which users can transparently resume their work on any desktop c

111 <u>R × W: a scheduling approach for large-scale on-demand data broadcast</u>
Demet Aksoy, Michael Franklin
December 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 6
Publisher: IEEE Press
Full text available: pdf(332.50 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index term</u>

112 <u>The SIFT information dissemination system</u>
Tak W. Yan, Hector Garcia-Molina
December 1999   **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 4
Publisher: ACM Press
Full text available: pdf(220.77 KB)   Additional Information: <u>full citation</u>, <u>ab</u>

Information dissemination is a powerful mechanism for finding information in wide-area environments.
information sources, matches the documents against the queries, and continuously updates the users
(SIFT), a system that as of April 1996 was processing over 40,000 worldwide subscriptions and ov ...

Keywords: Boolean queries, dissemination, filtering, indexing, vector space queries

113 <u>Static scheduling algorithms for allocating directed task graphs to multiprocessors</u>
Yu-Kwong Kwok, Ishfaq Ahmad
December 1999   **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4
Publisher: ACM Press
Full text available: pdf(723.58 KB)   Additional Information: <u>full citation</u>, <u>ab</u>

Static scheduling of a program represented by a directed task graph on a multiprocessor system to mil
optimal schedule is an NP-complete problem in general, researchers have resorted to devising efficient
including branch-and-bound, integer-programming, searching, graph-theory, randomization, genetic ..

Keywords: DAG, automatic parallelization, multiprocessors, parallel processing, software tools, static

114 <u>Resource partitioning in general purpose operating systems: experimental results in Windows N</u>
D. G. Waddington, D. Hutchison
October 1999   **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 4
Publisher: ACM Press
Full text available: pdf(1.56 MB)   Additional Information: <u>full citation</u>, <u>ab</u>

The principal role of the operating system is that of resource management. Its task is to present a set

systems, including Windows NT, federate resource sharing in a fair manner, with the predominant goal
applications that have stringent Quality-of-Service (QoS) and resource management require ...

115 Parallel texture caching
Homan Igehy, Matthew Eldridge, Pat Hanrahan
July 1999   **Proceedings of the ACM SIGGRAPH/EUROGRAPHICS workshop on Graphics hardwar**
Publisher: ACM Press
Full text available: pdf(1.80 MB)   Additional Information: full citation, references, citings, index terms

116 Fast joins using join indices
Zhe Li, Kenneth A. Ross
April 1999   **The VLDB Journal — The International Journal on Very Large Data Bases**,
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(263.06 KB)   Additional Information: full citation, ab

Two new algorithms, "Jive join" and "Slam join," are proposed for computing the join of two relations ι
processes each partition, while Slam join forms ordered runs of input relation tuple ids and then merge
one pass through the join index and two passes through a te ...

Keywords: Decision support systems, Query processing

117 Real-time estimation and dynamic renegotiation of UPC parameters for arbitrary traffic sources ii
Brian L. Mark, Gopalakrishnan Ramamurthy
December 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6
Publisher: IEEE Press
Full text available: pdf(424.49 KB)   Additional Information: full citation, references, citings, index term:

Keywords: asynchronous transfer mode, quality of service, real-time estimation, resource allocation,

118 SAVE: an algorithm for smoothed adaptive video over explicit rate networks
N. G. Duffield, K. K. Ramakrishnan, Amy R. Reibman
December 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6
Publisher: IEEE Press
Full text available: pdf(539.13 KB)   Additional Information: full citation, references, citings, index term:

Keywords: compressed video, multiplexing, rate control, smoothing

119 Driving resource management with application-level quality of service specifications
Michael J. Katchabaw, Hanan L. Lutfiyya, Michael A. Bauer
October 1998 **Proceedings of the first international conference on Information and computation**
Publisher: ACM Press
Full text available: pdf(1.12 MB)   Additional Information: full citation, references, index terms

Keywords: application-level quality of service, dynamic resource management, quality of service spec

120
Vclusters: a flexible, fine-grained object clustering mechanism

Mark L. Mcauliffe, Michael J. Carey, Marvin H. Solomon
October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference**
Issue 10
Publisher: ACM Press
Full text available: pdf(2.07 MB) Additional Information: full citation, ab

We consider the problem of delivering an effective fine-grained clustering tool to implementors and use contrasted with earlier work that concentrates on clustering *policies* (deciding which objects should be lead to poor space utilization on disk and in the disk block cache, particularl ...

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